

SV0306M

Team:

- Troy Culgan
- Rex Pearson

Dates:

- 23Jun to 02July on Manus

Manus Tasks:

1. H2 Generator - Maintenance
24June03
H2 Generator maintenance commenced
25June03
H2 generator maintenance continued
26June03
H2 generator maintenance completed, RBL maintenance completed
2. VSAT – install LNB(as per procedure) and ship back “adapted spare.”
24June03
LNB change out completed – Brewster advised
Replacement unit packed for shipment
25June03
Configuration of sat modem changed for test to the same as Nauru. This has reduced errors on the system – will monitor for several days to see if this is maintained. (Rx clock changed to receive clock off the satellite and the buffer size was changed from 256 bytes to 4 bytes)
28June03
Sat modem error log checked - nil errors since clock source/buffer size change on the 25th.
3. SDS - NFS server installation
27June03
Air Nuigini have the server in their freight depot and have guaranteed it will arrive on the Sunday flight into Manus.
29June03
Plane arrived 2 hours late into Manus causing some concern but it finally made it. Changed battery and removed DRAC card from the NFS and worked with Ron to install the unit. System back on line at 0505z.
Ron will confirm functionality (Sunday morning US time)
DSView page is back and functioning.
4. SDS – install “Remote Access Card.”
27June03

Card cannot be programmed due to lack of a linux computer on site

5. MWR config file update after replacing new heater unit with old one - ship new one to SGP.

24June03

No spare MWR heater on site (Francis has also checked) – Monty do you have any records that think there is ?.

26June03

Unable to locate spare MWR unit on site after additional searching

6. MWR heater id and marking

24June03

Existing heater marked and record completed and sent to Monty Apple.
Marked as serial number 2.

7. CPCC Dimension4 Observer time syncro procedure/training

30 June 2003

Observers Francis and Hymson trained on time syncro procedure

8. SDL v.2.1.2 upgrade(CD from Brad)

24June03

SDL 2.1.3 installed on observer laptop

9. Spare SMET logger repair

27June03

Logger tests are underway

28June03

Logger tests ok but cannot confirm the data dropouts that were previously evident

10. Spare SMET barometer install

27June03

Barometer arrived this morning and is installed into the logger

Logger tests are underway

28June logger tested barometer reading normal

11. Review SMET/spare SMET logger wiring for ORG problem

25June03

Commenced checks on ORG problem – no immediate solution to the problem, this is different to the problem that occurred in Darwin. Work commenced on the Smet logger at 2300z 24June and finished at 0600z 25June.

Emails sent to Mike Ritsche and Kev Widener to see if they have previously observed the symptoms I am seeing on the logger.

27June03

ORG detector replaced with spare unit, readings now within tolerance but slightly higher than Nauru and seem to vary around a little.
Details sent to Mike Ritsche for review.

Continuing testing with old ORG and repaired logger (see item 9)
Initial results indicate the old ORG is reading .07 when used with the spare logger. It appears the fault is related to the logger in use not the ORG. Will monitor overnite to see the performance of the ORG.

It is proposed to swap the logger tomorrow and use the old ORG. We will need the mentor to monitor the data over the weekend and advise if there are any problems with data dropouts from the logger.

28June03

Installed replacement ORG permanently onto ORG stand and cabled to logger. ORG out of service 2345 27June03 until 0015 28June03.

Replacement form posted to twppo web site under /reset/SV0306

12. Anemometer - label on tower & logger WIND1 and WIND2

26June03

Labels installed

13. Anemometer – wind head adjustment

26June03

Wind heads adjusted commenced changes at 2300 25June03 and completed at 0100 26June03

Upper wind head (Wind 1) was out of alignment by about 14 degrees, the lower wind head (Wind 2) was correct.

14. UPS – install new batteries.

25June03

Attempting to get the batteries off the wharf this afternoon.

Got the batteries off the wharf and have them on site.

26June03

I Van UPS batteries replaced. Instruments powered down at 0215z and restored at 0430z

27June03

I Van UPS battery voltage monitor circuit adjusted to display correct voltage on DSView page. Battery voltage is 107.9 volts whereas the DSView page was showing 102.2 volts.

28June03

D Van UPS batteries replaced.

D Van UPS battery voltage monitor circuit adjusted to display correct voltage on DSView page. Battery voltage is 107.7 volts

15. TSI – recon for fiber, stand, power for install later

27June03

Checked power wiring to TSI stand and conduit run for the fiber cable
Will attempt to run the fiber tomorrow
29June03
Draw cable installed into conduit so that fibre could be pulled thru.
Fibre installed from TSI stand to side of I Van, will attempt to finish the
fibre run tomorrow/Tuesday.
1 July 2003
TSI fibre run complete

16. Cal Kit - inventory Cal Kit (cables, wind direction tool, 4 ventilators) and
put cal items in kit and lock it.
1 July03
Inventory complete, report to follow.

17. Test APC UPS shutdown software after Reed installs the software
remotely.
29June03
Software not installed

18. Tools inventory for needed replacements
1 July 2003
Tool inventory complete report to follow

19. Train Observers – lockout/tag out procedures.
30 June03
Observers trained in procedures

20. Gnrnd IRT installation and config update(V. Morris)
24June03
Gndrad IRT installed – units configured to C
Need Vic Morris to confirm settings – have sent him an email requesting
the settings
26June03
Jim Mather to review and advise settings tomorrow morning
27June03
IRT settings adjusted as per Jim Mather instructions
Tlow : -50, Tend : 200, Volts: 0 – 10, Tr : 3
Unit installed is WD20062, Ser No 1250
Logger config checked – no change required
29June03
Vic Mather confirmed IRT settings

21. UVB – inspect for dome condensation problem
25June03
Checked UVB so obvious signs of any water entry point.

Changed desiccant and reinstalled
Will monitor over the next few days

27June03

Desiccant changed colour – have installed new desiccant and will
Continue to do so every day as required to try to suck out moisture

28June03

Replacement desiccant has not removed the moisture from the dome
Will continue to monitor

29June03

Problem not solved by continued desiccant replacement
UVB will need to be replaced when spare unit arrives

22. Set IP configuration on AWS laptop and start time server

24June03

AWS laptop setup to connect to network as per Nauru configuration.
Time service started (Win XP time program) and laptop synced ok

23. Configure Observers laptop to correct IP address as per hosts table

28June03

Observer laptop set to the correct IP address (.50)

24. Install Radmin remote service on AWS laptop and configure

24June03

Radmin program installed on to the AWS laptop and tested on site will
liase with Dick Eagan to confirm remote operation

25June03

Remote access not functioning - Dick Eagan to check for problems

26June03

Dick Eagan advised that he will work with me when I return to Darwin to
sort out the remote access.

25. Maintenance tasks (see Apple list)

25June03

Maintenance tasks commenced

1 July03

Maintenance check list/task list complete

26. Fix R1 Monitor in D van

24June03

Cables correctly connected to R1 (were removed by the observers during
the SDS corrective action).

New version of Netscape loaded onto R1 by Reed and we changed the
properties of the shortcut to reflect the new version/location. New version
was required to view the .css format of DSView.

Advised observers R1 is working again.

27. Replace E Van airconditioner

E Van right hand side air conditioner faulty – no obvious faults – replaced unit with spare

28. Check MMCR UPS operation

29June03

MMCR UPS not holding up when power removed. Checked battery to see if it had been replaced and found loose battery terminal – tightened and checked ok

29. Laise with Dick Pearse to obtain goods in customs

24June03

Met Dick Pearse in town and collected the goods in customs in Manus – delivered to site. Worked with Dick to try to get the DHL goods in Moresby shipped so the NFS server can be installed.

25June03

Met Dick Pearse to collect batteries from the wharf

Got the batteries off the wharf and have them on site.

There are other goods from Darwin in customs in Manus – awaiting clearance BUT the NFS is still in Moresby

27June03

Continued trying to expedite the delivery of the NFS server

We have now confirmed it is in the hands of Air Nuigini and they have said it is guaranteed to arrive on Sunday.

29June03

NFS server arrived !!!!! and installed